



0570  
1107

## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/035,833  
Source: OIP  
Date Processed by STIC: 11/19/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

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**<http://www.uspto.gov/web/offices/pac/checker>**

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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OIPE

Does Not Comply  
Corrected Diskette Needed

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002

TIME: 10:20:18

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

3 <110> APPLICANT: RIKEN  
4 Nakamura Yusuke  
5 Sekine Akihiro  
6 Iida Aritoshi  
7 Saito Susumu  
9 <120> TITLE OF INVENTION: Detection of Genetic Polymorphisms  
11 <130> FILE REFERENCE: PH-1479PCT  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/035,833  
C--> 13 <141> CURRENT FILING DATE: 2001-12-27  
13 <150> PRIOR APPLICATION NUMBER: 10/035,833  
14 <151> PRIOR FILING DATE: 2001-12-27  
16 <160> NUMBER OF SEQ ID NOS: 7669  
18 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

13701 <210> SEQ ID NO: 1658  
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13703 <212> TYPE: DNA  
13704 <213> ORGANISM: Homo sapiens  
13706 <400> SEQUENCE: 1658  
E--> 13707 cctgacatag ctctacgtg ycatgttagg cagtgtcatt g 41 [n.o.1] delete  
19988 <210> SEQ ID NO: 2382  
19989 <212> TYPE: DNA  
19990 <213> ORGANISM: Homo sapiens  
W--> 19992 <211> LENGTH: 41 ← add (missing)  
19992 <400> SEQUENCE: 2382  
E--> 19993 ttcttggatg tggccatgca ygggggcaag ggtttgatga g 41  
21814 <210> SEQ ID NO: 2596  
21815 <211> LENGTH: 41  
21816 <212> TYPE: DNA  
21817 <213> ORGANISM: Homo sapiens  
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E--> 29136 <210> SEQ ID NO: 85 → change to 3445  
29137 <211> LENGTH: 41  
29138 <212> TYPE: DNA  
29139 <213> ORGANISM: Homo sapiens  
E--> 29141 <400> SEQUENCE: 3445  
29142 ggcattatatt gtgaaactta yctaaaatcg aattcggggtc c 41  
E--> 29144 <210> SEQ ID NO: 3446  
29256 <210> SEQ ID NO: 3460

n detected; see p. 5

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002  
TIME: 10:20:22

Input Set : D:\sequence list.txt  
Output Set: N:\CRF4\11192002\J035833.raw

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29258 <212> TYPE: DNA
29259 <213> ORGANISM: Homo sapiens
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29657 <211> LENGTH: 41
29658 <212> TYPE: DNA
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29672 <210> SEQ ID NO: 3512
29673 <211> LENGTH: 41
29674 <212> TYPE: DNA
29675 <213> ORGANISM: Homo sapiens
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29683 <213> ORGANISM: Homo sapiens
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29688 <210> SEQ ID NO: 3514
29689 <211> LENGTH: 41
29690 <212> TYPE: DNA
29691 <213> ORGANISM: Homo sapiens
29693 <400> SEQUENCE: 3514
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29697 <211> LENGTH: 41
29698 <212> TYPE: DNA
29699 <213> ORGANISM: Homo sapiens
29701 <400> SEQUENCE: 3515
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29712 <210> SEQ ID NO: 3517
29713 <211> LENGTH: 41
29714 <212> TYPE: DNA
29715 <213> ORGANISM: Homo sapiens
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29728 <210> SEQ ID NO: 3519
29729 <211> LENGTH: 41
29730 <212> TYPE: DNA
29731 <213> ORGANISM: Homo sapiens
29733 <400> SEQUENCE: 3519
E--> 29734 gagtgccttg ggtactctct ngatggggga ctccatgata a 41
29744 <210> SEQ ID NO: 3521
29745 <211> LENGTH: 41

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*→ n found, see p. 5*

*- some error*

*- some error*

*- some error*

*- some error*

*- some error*

*- some error*

## RAW SEQUENCE LISTING

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:22

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

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29746 <212> TYPE: DNA
29747 <213> ORGANISM: Homo sapiens
29749 <400> SEQUENCE: 3521
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30768 <210> SEQ ID NO: 3649
30769 <211> LENGTH: 41
30770 <212> TYPE: DNA
30771 <213> ORGANISM: Homo sapiens
30773 <400> SEQUENCE: 3649
E--> 30774 gtaaattctca gttgaatcag natttttcag tctggttcct g 41
30776 <210> SEQ ID NO: 3650
30777 <211> LENGTH: 41
30778 <212> TYPE: DNA
30779 <213> ORGANISM: Homo sapiens
30781 <400> SEQUENCE: 3650
E--> 30782 gaggggctggg gactataggc ntagcctaatt tcaaggatga g 41
30784 <210> SEQ ID NO: 3651
30785 <211> LENGTH: 41
30786 <212> TYPE: DNA
30787 <213> ORGANISM: Homo sapiens
30789 <400> SEQUENCE: 3651
E--> 30790 ttgttggtt tgcaawggat ntatttcact cattcattca c 41
30792 <210> SEQ ID NO: 3652
30793 <211> LENGTH: 41
30794 <212> TYPE: DNA
30795 <213> ORGANISM: Homo sapiens
30797 <400> SEQUENCE: 3652
E--> 30798 cctgtccatc agactcttct nacctctccc cgaggagccc a 41
30800 <210> SEQ ID NO: 3653
30801 <211> LENGTH: 41
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30803 <213> ORGANISM: Homo sapiens
30805 <400> SEQUENCE: 3653
E--> 30806 cctgggtgac agagcgagat ntacgatgag atattattac t 41
30808 <210> SEQ ID NO: 3654
30809 <211> LENGTH: 41
30810 <212> TYPE: DNA
30811 <213> ORGANISM: Homo sapiens
30813 <400> SEQUENCE: 3654
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30816 <210> SEQ ID NO: 3655
30817 <211> LENGTH: 41
30818 <212> TYPE: DNA
30819 <213> ORGANISM: Homo sapiens
30821 <400> SEQUENCE: 3655
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30824 <210> SEQ ID NO: 3656
30825 <211> LENGTH: 41
30826 <212> TYPE: DNA

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002  
TIME: 10:20:22

Input Set : D:\sequence list.txt  
Output Set: N:\CRF4\11192002\J035833.raw

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30840 <210> SEQ ID NO: 3658
30841 <211> LENGTH: 41
30842 <212> TYPE: DNA
30843 <213> ORGANISM: Homo sapiens
30845 <400> SEQUENCE: 3658
E--> 30846 tttccttctt caaacccccc (n)agactagga gaaggctctgt c 41
30848 <210> SEQ ID NO: 3659
30849 <211> LENGTH: 41
30850 <212> TYPE: DNA
30851 <213> ORGANISM: Homo sapiens
30853 <400> SEQUENCE: 3659
E--> 30854 gggacggaca gaaaaagacc (n)agtttctgt tgagccaaag a 41
30856 <210> SEQ ID NO: 3660
30857 <211> LENGTH: 41
30858 <212> TYPE: DNA
30859 <213> ORGANISM: Homo sapiens
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E--> 30862 tatttttttca attaaataaa (n)agttttttt gtttctaaaa g 41
E--> 45255 <210> SEQ ID NO: (4560) - change to 5460
45256 <211> LENGTH: 41
45257 <212> TYPE: DNA
45258 <213> ORGANISM: Homo sapiens
E--> 45260 <400> SEQUENCE: 5460
45261 agcagcatta ctctgtgtgc ygctggcact ggcctggtgg g 41
E--> 45263 <210> SEQ ID NO: 5461
E--> 45271 <210> SEQ ID NO: (5642) - change to 5462
45272 <211> LENGTH: 41
45273 <212> TYPE: DNA
45274 <213> ORGANISM: Homo sapiens
E--> 45276 <400> SEQUENCE: (5462)
45277 ccattcctgg gtcttctttg raggtgaat gaaattccat g 41
E--> 45279 <210> SEQ ID NO: 5463
45439 <210> SEQ ID NO: 5483
45440 <211> LENGTH: 41
45441 <212> TYPE: DNA
45442 <213> ORGANISM: Homo sapiens
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45445 tctaacgctg tcttctttgt wctgaaaacc aaacaccttc t 41

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## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:39; N Pos. 21  
 Seq#:64; N Pos. 21  
 Seq#:580; N Pos. 21  
 Seq#:634; N Pos. 21  
 Seq#:656; N Pos. 21  
 Seq#:658; N Pos. 21  
 Seq#:671; N Pos. 21  
 Seq#:672; N Pos. 21  
 Seq#:673; N Pos. 21  
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 Seq#:677; N Pos. 21  
 Seq#:785; N Pos. 21  
 Seq#:797; N Pos. 21  
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 Seq#:808; N Pos. 21  
 Seq#:809; N Pos. 21  
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 Seq#:845; N Pos. 21  
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 Seq#:933; N Pos. 21  
 Seq#:955; N Pos. 21  
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 Seq#:1200; N Pos. 21  
 Seq#:1204; N Pos. 21

## VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set : N:\CRF4\11192002\J035833.raw

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## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

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## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

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## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

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## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

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Output Set: N:\CRF4\11192002\J035833.raw

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## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:3054; N Pos. 21  
Seq#:3056; N Pos. 21  
Seq#:3060; N Pos. 21  
Seq#:3065; N Pos. 21  
Seq#:3069; N Pos. 21  
Seq#:3073; N Pos. 21  
Seq#:3081; N Pos. 21  
Seq#:3103; N Pos. 21  
Seq#:3119; N Pos. 21  
Seq#:3125; N Pos. 21  
Seq#:3130; N Pos. 21  
Seq#:3140; N Pos. 21  
Seq#:3154; N Pos. 21  
Seq#:3156; N Pos. 21  
Seq#:3158; N Pos. 21  
Seq#:3169; N Pos. 21  
Seq#:3179; N Pos. 21  
Seq#:3184; N Pos. 21  
Seq#:3196; N Pos. 21  
Seq#:3273; N Pos. 21  
Seq#:3306; N Pos. 21  
Seq#:3310; N Pos. 21  
Seq#:3315; N Pos. 21  
Seq#:3317; N Pos. 21  
Seq#:3352; N Pos. 21  
Seq#:3355; N Pos. 21  
Seq#:3358; N Pos. 21  
Seq#:3510; N Pos. 21  
Seq#:3512; N Pos. 21  
Seq#:3513; N Pos. 21  
Seq#:3514; N Pos. 21  
Seq#:3515; N Pos. 21  
Seq#:3517; N Pos. 21  
Seq#:3519; N Pos. 21  
Seq#:3521; N Pos. 21  
Seq#:3649; N Pos. 21  
Seq#:3650; N Pos. 21  
Seq#:3651; N Pos. 21  
Seq#:3652; N Pos. 21  
Seq#:3653; N Pos. 21  
Seq#:3654; N Pos. 21  
Seq#:3655; N Pos. 21  
Seq#:3656; N Pos. 21  
Seq#:3658; N Pos. 21  
Seq#:3659; N Pos. 21  
Seq#:3660; N Pos. 21  
Seq#:3661; N Pos. 21  
Seq#:3663; N Pos. 21  
Seq#:3664; N Pos. 21

## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:3665; N Pos. 21  
Seq#:3666; N Pos. 21  
Seq#:3667; N Pos. 21  
Seq#:3668; N Pos. 21  
Seq#:3669; N Pos. 21  
Seq#:3671; N Pos. 21  
Seq#:3672; N Pos. 21  
Seq#:3673; N Pos. 21  
Seq#:3674; N Pos. 21  
Seq#:3675; N Pos. 21  
Seq#:3676; N Pos. 21  
Seq#:3677; N Pos. 21  
Seq#:3679; N Pos. 21  
Seq#:3680; N Pos. 21  
Seq#:3681; N Pos. 21  
Seq#:3682; N Pos. 21  
Seq#:3683; N Pos. 21  
Seq#:3684; N Pos. 21  
Seq#:3685; N Pos. 21  
Seq#:3686; N Pos. 21  
Seq#:3751; N Pos. 21  
Seq#:3752; N Pos. 21  
Seq#:3753; N Pos. 21  
Seq#:3754; N Pos. 21  
Seq#:3833; N Pos. 21  
Seq#:3834; N Pos. 21  
Seq#:3835; N Pos. 21  
Seq#:3836; N Pos. 21  
Seq#:3837; N Pos. 21  
Seq#:3838; N Pos. 21  
Seq#:3839; N Pos. 21  
Seq#:3840; N Pos. 21  
Seq#:3841; N Pos. 21  
Seq#:3842; N Pos. 21  
Seq#:3843; N Pos. 21  
Seq#:3844; N Pos. 21  
Seq#:3845; N Pos. 21  
Seq#:3846; N Pos. 21  
Seq#:3847; N Pos. 21  
Seq#:3848; N Pos. 21  
Seq#:3857; N Pos. 21  
Seq#:3879; N Pos. 21  
Seq#:3885; N Pos. 21  
Seq#:3915; N Pos. 21  
Seq#:3918; N Pos. 21  
Seq#:3926; N Pos. 21  
Seq#:3933; N Pos. 21  
Seq#:3950; N Pos. 21  
Seq#:3953; N Pos. 21

## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:3962; N Pos. 21  
Seq#:3984; N Pos. 21  
Seq#:3991; N Pos. 21  
Seq#:3994; N Pos. 21  
Seq#:3996; N Pos. 21  
Seq#:3998; N Pos. 21  
Seq#:4001; N Pos. 21  
Seq#:4004; N Pos. 21  
Seq#:4030; N Pos. 21  
Seq#:4037; N Pos. 21  
Seq#:4042; N Pos. 21  
Seq#:4049; N Pos. 21  
Seq#:4052; N Pos. 21  
Seq#:4054; N Pos. 21  
Seq#:4058; N Pos. 21  
Seq#:4067; N Pos. 21  
Seq#:4069; N Pos. 21  
Seq#:4070; N Pos. 21  
Seq#:4077; N Pos. 21  
Seq#:4079; N Pos. 21  
Seq#:4084; N Pos. 21  
Seq#:4085; N Pos. 21  
Seq#:4089; N Pos. 21  
Seq#:4092; N Pos. 21  
Seq#:4102; N Pos. 21  
Seq#:4109; N Pos. 21  
Seq#:4113; N Pos. 21  
Seq#:4115; N Pos. 21  
Seq#:4117; N Pos. 21  
Seq#:4121; N Pos. 21  
Seq#:4126; N Pos. 21  
Seq#:4129; N Pos. 21  
Seq#:4173; N Pos. 21  
Seq#:4175; N Pos. 21  
Seq#:4183; N Pos. 21  
Seq#:4188; N Pos. 21  
Seq#:4190; N Pos. 21  
Seq#:4193; N Pos. 21  
Seq#:4198; N Pos. 21  
Seq#:4218; N Pos. 21  
Seq#:4224; N Pos. 21  
Seq#:4229; N Pos. 21  
Seq#:4234; N Pos. 21  
Seq#:4235; N Pos. 21  
Seq#:4238; N Pos. 21  
Seq#:4239; N Pos. 21  
Seq#:4259; N Pos. 21  
Seq#:4273; N Pos. 21  
Seq#:4280; N Pos. 21

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002  
TIME: 10:20:28

Input Set : D:\sequence list.txt  
Output Set: N:\CRF4\11192002\J035833.raw

Seq#:4294; N Pos. 21  
Seq#:4298; N Pos. 21  
Seq#:4310; N Pos. 21  
Seq#:4314; N Pos. 21  
Seq#:4315; N Pos. 21  
Seq#:4316; N Pos. 21  
Seq#:4317; N Pos. 21  
Seq#:4319; N Pos. 21  
Seq#:4320; N Pos. 21  
Seq#:4325; N Pos. 21  
Seq#:4331; N Pos. 21  
Seq#:4333; N Pos. 21  
Seq#:4334; N Pos. 21  
Seq#:4345; N Pos. 21  
Seq#:4348; N Pos. 21  
Seq#:4354; N Pos. 21  
Seq#:4361; N Pos. 21  
Seq#:4372; N Pos. 21  
Seq#:4391; N Pos. 21  
Seq#:4397; N Pos. 21  
Seq#:4398; N Pos. 21  
Seq#:4408; N Pos. 21  
Seq#:4414; N Pos. 21  
Seq#:4416; N Pos. 21  
Seq#:4419; N Pos. 21  
Seq#:4424; N Pos. 21  
Seq#:4425; N Pos. 21  
Seq#:4433; N Pos. 21  
Seq#:4435; N Pos. 21  
Seq#:4442; N Pos. 21  
Seq#:4443; N Pos. 21  
Seq#:4448; N Pos. 21  
Seq#:4449; N Pos. 21  
Seq#:4452; N Pos. 21  
Seq#:4453; N Pos. 21  
Seq#:4457; N Pos. 21  
Seq#:4460; N Pos. 21  
Seq#:4466; N Pos. 21  
Seq#:4469; N Pos. 21  
Seq#:4472; N Pos. 21  
Seq#:4473; N Pos. 21  
Seq#:4474; N Pos. 21  
Seq#:4477; N Pos. 21  
Seq#:4479; N Pos. 21  
Seq#:4486; N Pos. 21  
Seq#:4514; N Pos. 21  
Seq#:4544; N Pos. 21  
Seq#:4552; N Pos. 21  
Seq#:4565; N Pos. 21

## VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set : N:\CRF4\11192002\J035833.raw

Seq#:4575; N Pos. 21  
Seq#:4576; N Pos. 21  
Seq#:4588; N Pos. 21  
Seq#:4589; N Pos. 21  
Seq#:4590; N Pos. 21  
Seq#:4597; N Pos. 21  
Seq#:4600; N Pos. 21  
Seq#:4603; N Pos. 21  
Seq#:4606; N Pos. 21  
Seq#:4607; N Pos. 21  
Seq#:4610; N Pos. 21  
Seq#:4615; N Pos. 21  
Seq#:4627; N Pos. 21  
Seq#:4652; N Pos. 21  
Seq#:4653; N Pos. 21  
Seq#:4654; N Pos. 21  
Seq#:4655; N Pos. 21  
Seq#:4657; N Pos. 21  
Seq#:4658; N Pos. 21  
Seq#:4660; N Pos. 21  
Seq#:4661; N Pos. 21  
Seq#:4662; N Pos. 21  
Seq#:4663; N Pos. 21  
Seq#:4664; N Pos. 21  
Seq#:4665; N Pos. 21  
Seq#:4666; N Pos. 21  
Seq#:4758; N Pos. 21  
Seq#:4760; N Pos. 21  
Seq#:4761; N Pos. 21  
Seq#:4763; N Pos. 21  
Seq#:4764; N Pos. 21  
Seq#:4765; N Pos. 21  
Seq#:4766; N Pos. 21  
Seq#:4768; N Pos. 21  
Seq#:4808; N Pos. 21  
Seq#:4809; N Pos. 21  
Seq#:4810; N Pos. 21  
Seq#:4811; N Pos. 21  
Seq#:4847; N Pos. 21  
Seq#:4848; N Pos. 21  
Seq#:4849; N Pos. 21  
Seq#:4850; N Pos. 21  
Seq#:4851; N Pos. 21  
Seq#:4877; N Pos. 21  
Seq#:4878; N Pos. 21  
Seq#:4879; N Pos. 21  
Seq#:4880; N Pos. 21  
Seq#:4881; N Pos. 21  
Seq#:4883; N Pos. 21



## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:4884; N Pos. 21  
Seq#:4891; N Pos. 21  
Seq#:4892; N Pos. 21  
Seq#:4893; N Pos. 21  
Seq#:4894; N Pos. 21  
Seq#:4895; N Pos. 21  
Seq#:4897; N Pos. 21  
Seq#:4898; N Pos. 21  
Seq#:4899; N Pos. 21  
Seq#:4900; N Pos. 21  
Seq#:4901; N Pos. 21  
Seq#:4902; N Pos. 21  
Seq#:4907; N Pos. 21  
Seq#:4908; N Pos. 21  
Seq#:4909; N Pos. 21  
Seq#:4910; N Pos. 21  
Seq#:4918; N Pos. 21  
Seq#:4919; N Pos. 21  
Seq#:4936; N Pos. 21  
Seq#:4938; N Pos. 21  
Seq#:4983; N Pos. 21  
Seq#:4985; N Pos. 21  
Seq#:4986; N Pos. 21  
Seq#:4987; N Pos. 21  
Seq#:4988; N Pos. 21  
Seq#:5076; N Pos. 21  
Seq#:5078; N Pos. 21  
Seq#:5080; N Pos. 21  
Seq#:5081; N Pos. 21  
Seq#:5082; N Pos. 21  
Seq#:5083; N Pos. 21  
Seq#:5084; N Pos. 21  
Seq#:5085; N Pos. 21  
Seq#:5086; N Pos. 21  
Seq#:5087; N Pos. 21  
Seq#:5088; N Pos. 21  
Seq#:5090; N Pos. 21  
Seq#:5091; N Pos. 21  
Seq#:5092; N Pos. 21  
Seq#:5093; N Pos. 21  
Seq#:5094; N Pos. 21  
Seq#:5095; N Pos. 21  
Seq#:5096; N Pos. 21  
Seq#:5097; N Pos. 21  
Seq#:5155; N Pos. 21  
Seq#:5156; N Pos. 21  
Seq#:5157; N Pos. 21  
Seq#:5158; N Pos. 21  
Seq#:5160; N Pos. 21

## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:5161; N Pos. 21  
Seq#:5162; N Pos. 21  
Seq#:5163; N Pos. 21  
Seq#:5164; N Pos. 21  
Seq#:5165; N Pos. 21  
Seq#:5166; N Pos. 21  
Seq#:5167; N Pos. 21  
Seq#:5168; N Pos. 21  
Seq#:5169; N Pos. 21  
Seq#:5170; N Pos. 21  
Seq#:5187; N Pos. 21  
Seq#:5189; N Pos. 21  
Seq#:5209; N Pos. 21  
Seq#:5210; N Pos. 21  
Seq#:5212; N Pos. 21  
Seq#:5218; N Pos. 21  
Seq#:5227; N Pos. 21  
Seq#:5231; N Pos. 21  
Seq#:5246; N Pos. 21  
Seq#:5247; N Pos. 21  
Seq#:5249; N Pos. 21  
Seq#:5255; N Pos. 21  
Seq#:5256; N Pos. 21  
Seq#:5257; N Pos. 21  
Seq#:5258; N Pos. 21  
Seq#:5261; N Pos. 21  
Seq#:5264; N Pos. 21  
Seq#:5271; N Pos. 21  
Seq#:5276; N Pos. 21  
Seq#:5277; N Pos. 21  
Seq#:5278; N Pos. 21  
Seq#:5299; N Pos. 21  
Seq#:5308; N Pos. 21  
Seq#:5311; N Pos. 21  
Seq#:5312; N Pos. 21  
Seq#:5314; N Pos. 21  
Seq#:5320; N Pos. 21  
Seq#:5340; N Pos. 21  
Seq#:5400; N Pos. 21  
Seq#:5404; N Pos. 21  
Seq#:5407; N Pos. 21  
Seq#:5410; N Pos. 21  
Seq#:5436; N Pos. 21  
Seq#:5445; N Pos. 21  
Seq#:5550; N Pos. 21  
Seq#:5556; N Pos. 21  
Seq#:5557; N Pos. 21  
Seq#:5559; N Pos. 21  
Seq#:5561; N Pos. 21

## VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:5564; N Pos. 21  
Seq#:5566; N Pos. 21  
Seq#:5570; N Pos. 21  
Seq#:5575; N Pos. 21  
Seq#:5579; N Pos. 21  
Seq#:5583; N Pos. 21  
Seq#:5591; N Pos. 21  
Seq#:5614; N Pos. 21  
Seq#:5630; N Pos. 21  
Seq#:5636; N Pos. 21  
Seq#:5641; N Pos. 21  
Seq#:5651; N Pos. 21  
Seq#:5665; N Pos. 21  
Seq#:5667; N Pos. 21  
Seq#:5669; N Pos. 21  
Seq#:5680; N Pos. 21  
Seq#:5690; N Pos. 21  
Seq#:5695; N Pos. 21  
Seq#:5707; N Pos. 21  
Seq#:5740; N Pos. 21  
Seq#:5800; N Pos. 21  
Seq#:5806; N Pos. 21  
Seq#:5807; N Pos. 21  
Seq#:5835; N Pos. 21  
Seq#:5839; N Pos. 21  
Seq#:5844; N Pos. 21  
Seq#:5846; N Pos. 21  
Seq#:5849; N Pos. 21  
Seq#:5884; N Pos. 21  
Seq#:5890; N Pos. 21  
Seq#:5902; N Pos. 21  
Seq#:5904; N Pos. 21  
Seq#:5917; N Pos. 21  
Seq#:5921; N Pos. 21  
Seq#:5922; N Pos. 21  
Seq#:5934; N Pos. 21  
Seq#:5965; N Pos. 21  
Seq#:5980; N Pos. 21  
Seq#:5981; N Pos. 21  
Seq#:5986; N Pos. 21  
Seq#:5987; N Pos. 21  
Seq#:5989; N Pos. 21  
Seq#:5991; N Pos. 21  
Seq#:5992; N Pos. 21  
Seq#:5994; N Pos. 21  
Seq#:5995; N Pos. 21  
Seq#:5996; N Pos. 21  
Seq#:6001; N Pos. 21  
Seq#:6003; N Pos. 21

## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:6009; N Pos. 21  
Seq#:6021; N Pos. 21  
Seq#:6027; N Pos. 21  
Seq#:6036; N Pos. 21  
Seq#:6041; N Pos. 21  
Seq#:6047; N Pos. 21  
Seq#:6051; N Pos. 21  
Seq#:6052; N Pos. 21  
Seq#:6060; N Pos. 21  
Seq#:6061; N Pos. 21  
Seq#:6062; N Pos. 21  
Seq#:6072; N Pos. 21  
Seq#:6073; N Pos. 21  
Seq#:6089; N Pos. 21  
Seq#:6090; N Pos. 21  
Seq#:6091; N Pos. 21  
Seq#:6173; N Pos. 21  
Seq#:6174; N Pos. 21  
Seq#:6175; N Pos. 21  
Seq#:6176; N Pos. 21  
Seq#:6177; N Pos. 21  
Seq#:6178; N Pos. 21  
Seq#:6179; N Pos. 21  
Seq#:6180; N Pos. 21  
Seq#:6181; N Pos. 21  
Seq#:6182; N Pos. 21  
Seq#:6202; N Pos. 21  
Seq#:6204; N Pos. 21  
Seq#:6205; N Pos. 21  
Seq#:6208; N Pos. 21  
Seq#:6224; N Pos. 21  
Seq#:6307; N Pos. 21  
Seq#:6308; N Pos. 21  
Seq#:6310; N Pos. 21  
Seq#:6311; N Pos. 21  
Seq#:6312; N Pos. 21  
Seq#:6313; N Pos. 21  
Seq#:6314; N Pos. 21  
Seq#:6315; N Pos. 21  
Seq#:6317; N Pos. 21  
Seq#:6318; N Pos. 21  
Seq#:6320; N Pos. 21  
Seq#:6322; N Pos. 21  
Seq#:6323; N Pos. 21  
Seq#:6405; N Pos. 22  
Seq#:6415; N Pos. 21  
Seq#:6416; N Pos. 21  
Seq#:6472; N Pos. 21  
Seq#:6473; N Pos. 21

## VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/035,833

DATE: 11/19/2002

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:6554; N Pos. 21  
Seq#:6555; N Pos. 21  
Seq#:6609; N Pos. 21  
Seq#:6610; N Pos. 21  
Seq#:6725; N Pos. 21  
Seq#:6726; N Pos. 21  
Seq#:6728; N Pos. 21  
Seq#:6739; N Pos. 21  
Seq#:6748; N Pos. 21  
Seq#:6750; N Pos. 21  
Seq#:6751; N Pos. 21  
Seq#:6757; N Pos. 21  
Seq#:6759; N Pos. 21  
Seq#:6771; N Pos. 21  
Seq#:6772; N Pos. 21  
Seq#:6773; N Pos. 21  
Seq#:6785; N Pos. 21  
Seq#:6786; N Pos. 21  
Seq#:6787; N Pos. 21  
Seq#:6828; N Pos. 21  
Seq#:6830; N Pos. 21  
Seq#:6831; N Pos. 21  
Seq#:6832; N Pos. 21  
Seq#:6833; N Pos. 21  
Seq#:6834; N Pos. 21  
Seq#:6835; N Pos. 21  
Seq#:6837; N Pos. 21  
Seq#:6839; N Pos. 21  
Seq#:6841; N Pos. 21  
Seq#:6870; N Pos. 21  
Seq#:6871; N Pos. 21  
Seq#:6872; N Pos. 21  
Seq#:6873; N Pos. 21  
Seq#:6874; N Pos. 21  
Seq#:6876; N Pos. 21  
Seq#:6877; N Pos. 21  
Seq#:6878; N Pos. 21  
Seq#:6880; N Pos. 21  
Seq#:6881; N Pos. 21  
Seq#:6894; N Pos. 21  
Seq#:6897; N Pos. 21  
Seq#:6921; N Pos. 21  
Seq#:6940; N Pos. 21  
Seq#:6941; N Pos. 21  
Seq#:6942; N Pos. 21  
Seq#:6965; N Pos. 21  
Seq#:6966; N Pos. 21  
Seq#:6967; N Pos. 21  
Seq#:6997; N Pos. 21

## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:7005; N Pos. 21  
Seq#:7006; N Pos. 21  
Seq#:7017; N Pos. 21  
Seq#:7049; N Pos. 21  
Seq#:7053; N Pos. 21  
Seq#:7059; N Pos. 21  
Seq#:7070; N Pos. 21  
Seq#:7073; N Pos. 21  
Seq#:7074; N Pos. 21  
Seq#:7076; N Pos. 21  
Seq#:7077; N Pos. 21  
Seq#:7078; N Pos. 21  
Seq#:7079; N Pos. 21  
Seq#:7082; N Pos. 21  
Seq#:7085; N Pos. 21  
Seq#:7089; N Pos. 21  
Seq#:7101; N Pos. 21  
Seq#:7105; N Pos. 21  
Seq#:7114; N Pos. 21  
Seq#:7115; N Pos. 21  
Seq#:7117; N Pos. 21  
Seq#:7118; N Pos. 21  
Seq#:7120; N Pos. 21  
Seq#:7121; N Pos. 21  
Seq#:7123; N Pos. 21  
Seq#:7125; N Pos. 21  
Seq#:7127; N Pos. 21  
Seq#:7134; N Pos. 21  
Seq#:7146; N Pos. 21  
Seq#:7148; N Pos. 21  
Seq#:7164; N Pos. 21  
Seq#:7186; N Pos. 21  
Seq#:7209; N Pos. 21  
Seq#:7238; N Pos. 21  
Seq#:7278; N Pos. 21  
Seq#:7281; N Pos. 21  
Seq#:7282; N Pos. 21  
Seq#:7287; N Pos. 21  
Seq#:7288; N Pos. 21  
Seq#:7299; N Pos. 21  
Seq#:7329; N Pos. 21  
Seq#:7332; N Pos. 21  
Seq#:7333; N Pos. 21  
Seq#:7346; N Pos. 21  
Seq#:7375; N Pos. 21  
Seq#:7381; N Pos. 21  
Seq#:7383; N Pos. 21  
Seq#:7385; N Pos. 21  
Seq#:7387; N Pos. 21

## VARIABLE LOCATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

Seq#:7389; N Pos. 21  
Seq#:7390; N Pos. 21  
Seq#:7397; N Pos. 21  
Seq#:7417; N Pos. 21  
Seq#:7421; N Pos. 21  
Seq#:7426; N Pos. 21  
Seq#:7434; N Pos. 21  
Seq#:7436; N Pos. 21  
Seq#:7443; N Pos. 21  
Seq#:7458; N Pos. 21  
Seq#:7461; N Pos. 21  
Seq#:7483; N Pos. 21  
Seq#:7485; N Pos. 21  
Seq#:7488; N Pos. 21  
Seq#:7489; N Pos. 21  
Seq#:7493; N Pos. 21  
Seq#:7495; N Pos. 21  
Seq#:7497; N Pos. 21  
Seq#:7503; N Pos. 21  
Seq#:7510; N Pos. 21  
Seq#:7519; N Pos. 21  
Seq#:7520; N Pos. 21  
Seq#:7531; N Pos. 21  
Seq#:7538; N Pos. 21  
Seq#:7566; N Pos. 21  
Seq#:7615; N Pos. 21  
Seq#:7649; N Pos. 21  
Seq#:7651; N Pos. 21  
Seq#:7667; N Pos. 21

## VERIFICATION SUMMARY

DATE: 11/19/2002

PATENT APPLICATION: US/10/035,833

TIME: 10:20:28

Input Set : D:\sequence list.txt

Output Set: N:\CRF4\11192002\J035833.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:330 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:39  
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:535 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:64  
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0  
L:4668 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:580  
L:4673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:580 after pos.:0  
L:5105 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:634  
L:5110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:634 after pos.:0  
L:5286 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:656  
L:5291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:656 after pos.:0  
L:5307 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:658  
L:5312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:658 after pos.:0  
L:5416 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:671  
L:5421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:671 after pos.:0  
L:5429 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:672  
L:5434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:672 after pos.:0  
L:5442 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:673  
L:5447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:673 after pos.:0  
L:5455 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:674  
L:5460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:674 after pos.:0  
L:5476 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:676  
L:5481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:676 after pos.:0  
L:5489 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:677  
L:5494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:677 after pos.:0  
L:6358 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:785  
L:6363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:785 after pos.:0  
L:6459 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:797  
L:6464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:797 after pos.:0  
L:6536 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:806  
L:6541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:806 after pos.:0  
L:6557 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:808  
L:6562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:808 after pos.:0  
L:6570 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:809  
L:6575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:809 after pos.:0  
L:6623 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:815  
L:6628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:815 after pos.:0  
L:6732 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:828  
L:6737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:828 after pos.:0  
L:6753 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:830  
L:6758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:830 after pos.:0  
L:6766 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:831  
L:6771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:831 after pos.:0  
L:6867 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:843  
L:6872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:843 after pos.:0  
L:6888 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:845  
L:6893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:845 after pos.:0



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L:7237 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:888  
L:7242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:888 after pos.:0  
L:7258 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:890  
L:7263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:890 after pos.:0  
L:7447 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:913  
L:7452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:913 after pos.:0  
L:7604 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:932  
L:7609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:932 after pos.:0  
L:7617 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:933  
L:7622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:933 after pos.:0  
L:7798 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:955  
L:7803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:955 after pos.:0  
L:7811 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:956  
L:7816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:956 after pos.:0  
L:7824 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:957  
L:7829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:957 after pos.:0  
L:8069 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:987  
L:8074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:987 after pos.:0  
L:8170 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:999  
L:8175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:999 after pos.:0  
L:9495 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1164  
L:9500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1164 after pos.:0  
L:9516 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1166  
L:9521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1166 after pos.:0  
L:9529 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1167  
L:9534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1167 after pos.:0  
L:9542 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1168  
L:9547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1168 after pos.:0  
L:9555 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1169  
L:9560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1169 after pos.:0  
L:9576 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1171  
L:9581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1171 after pos.:0  
L:9597 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1173  
L:9602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1173 after pos.:0  
L:9618 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1175  
L:9623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1175 after pos.:0  
L:9823 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1200  
L:9828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1200 after pos.:0  
L:9860 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1204  
L:9865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1204 after pos.:0  
L:9889 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1207  
L:9894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1207 after pos.:0  
L:9918 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1210  
L:9923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1210 after pos.:0  
L:10203 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1245  
L:10208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1245 after pos.:0  
L:10232 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1248  
L:10237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1248 after pos.:0  
L:10245 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1249

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L:10250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1249 after pos.:0  
L:10266 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1251  
L:10271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1251 after pos.:0  
L:10279 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1252  
L:10284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1252 after pos.:0  
L:13707 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1658  
L:13707 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:47 SEQ:1658  
L:13707 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8  
L:13707 M:112 C: (48) String data converted to lower case,  
L:13707 M:252 E: No. of Seq. differs, <211> LENGTH:Input:41 Found:47 SEQ:1658  
L:19992 M:282 W: Numeric Field Identifier Missing, <211> is required.  
L:19993 M:252 E: No. of Seq. differs, <211> LENGTH:Input:0 Found:41 SEQ:2382  
L:21820 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2596  
L:29136 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 85  
L:29141 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:85 differs:3445  
L:29144 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 86 thru 3445  
L:29261 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3460  
differs:3450  
L:29662 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3510  
L:29678 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3512  
L:29686 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3513  
L:29694 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3514  
L:29702 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3515  
L:29718 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3517  
L:29734 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3519  
L:29750 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3521  
L:30774 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3649  
L:30782 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3650  
L:30790 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3651  
L:30798 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3652  
L:30806 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3653  
L:30814 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3654  
L:30822 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3655  
L:30830 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3656  
L:30846 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3658  
L:30854 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3659  
L:30862 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3660  
L:30870 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3661  
L:30886 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3663  
L:30894 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3664  
L:30902 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3665  
L:30910 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3666  
L:30918 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3667  
L:30926 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3668  
L:30934 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3669  
L:30950 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3671  
L:30958 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3672  
L:30966 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3673  
L:30974 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3674  
L:30982 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3675

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L:30990 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3676  
L:30998 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3677  
L:31014 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3679  
L:31022 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3680  
L:31030 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3681  
L:31038 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3682  
L:31046 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3683  
L:31054 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3684  
L:31062 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3685  
L:31070 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3686  
L:31590 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3751  
L:31598 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3752  
L:31606 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3753  
L:31614 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3754  
L:32246 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3833  
L:32254 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3834  
L:45255 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 4560  
L:45260 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4560  
differs:5460  
L:45263 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 4561 thru 5460  
L:45271 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 5462 thru 5641  
L:45276 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:5642  
differs:5462  
L:45279 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 5463  
L:45444 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:5483  
differs:2123  
L:64245 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1  
L:64246 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7669